

**FIG. 11A**





**FIG. 11G**

Altered C-terminus protein

[illegible]

FIG. 11H

**FIG. 11I**

**FIG. 11J**

**FIG. 11K**



A circular stamp from the Office of Intellectual Property (OIP). The text "OIP" is at the top, "MAR 27 2003" is in the center, and "PATENT &amp; TRADEMARK OFFICE" is at the bottom.

FIG. 11L



01  
MAR 27 2003  
PATENT & TRADEMARK OFFICE

GTCCTACGTCAGTG  
V L R P V

CCACGGGGATCCCGCAGGGGTCCATCTCTCTCAGCGTCTCTACGACCTGTGTCTACGGCACAATGAGAACAAAGCTGTTTCCGGGGATTCGGGGGGACGGGTCTCTCGCTTTGTGGA  
P G D P A G L H P L H A A L Q P V L R R E G S Q A V C G D S A G R A A P A F V G

TGATTTCCTGTGGTGACACTCTCACTCACCCACGGGAAACCTTCTCAGGACCTGTTTGGAGATGCTCTGAGTATGGCTGCGTGGTGAACCTGGCGAAGACAGTGGTGAACCTCC

FIG. 11N



**FIG. 11S**



4

**FIG. 11T**

GGACCCCTGGGAGCTCTGGGAATTTGGAGTGACCAAGGTGTGCCCTGTACACAGGGGAGGACCCCTGCACCTGGATGGGGGTCCCTGTGGGTCAAATGGGGGGAGGTGCTGTGGGAGTAA  
AATACTGAATATATGAGTTTTTCAGTTTTGA



**FIG. 11U**



GGGCGCTTGGGCCCCAGGCATGGCGGTGTGTGAAGCGGGACCCGCGGCTTCGCGCGCTGGTGCCCATGTGCTGTGTGCGTCCCTGGGACGCAACGCCGCCGCCGCCGCCGCC  
R R L G P Q G W R L V Q R G D P A A F Z A L V A Q C L V C V P W D A R P P P A A

GGGCGCTTGGGCCCCAGGCATGGCGGTGTGTGAAGCGGGACCCGCGGCTTCGCCGCGCTGGTGCCCATGTGCTGTGTGCGTCCCTGGGACGCAACGGCGCGCGCGCGCGCGC  
R R L G P Q G W R L V Q R G D P A A F Z A L V A Q C L V C V P W D A R P P P A A

GGCCCTCCCGGGGTCGGCGTCGGCTGGGGTGAAGGCGCGCGGGGGAACAGCGACATGCGGAGAGCAGCGCAGGGCGACTCAGGGCGCTTCCCGCCAGGTG  
G L P G V G V R L G L R A A G G N Q R H A E S S A G D S G R P P R R  
A S P G S A S G W G \* G R P G G T S D M R R A A Q A T Q G A S P A G  
P P R G R R R P A G V E G G R G E P A T C G E Q R R R L R A L P P Q V

CCCTCTCCTTCGCCAGGCTGCTCTGCTGAGGAGCTGGTGGCCCCAGTGTCTGAGAGGCTGTGCGAGCCGCGCGCGAGAGACGTTGCTGGGCTTCGGGCTTCGGCTCTGGAACGGGGCCCC

GGGGGGCCCCCGAGGCTTCACACACAGCGTGGCGAGCTACCTGCCACACGGTACACCAACCACTCGCGGGGAGCGGGCGCTGGGGGCTGCTCTCGCCCGCGCTGGGCGACGACGT  
GGPPEAFTTSVRSYLPNTVTDALRGSGAWGLLLRRRVGDDV

GCTGGTTCACCTGCTGGCAGCGTCGCGGCTCTTTGTGCTGGTGGCTCCGAGCTGGCGCTACAGGTGTGCGGGCCGCGCTGTACACAGCTCGGCGCTGCCACTCAGGCCCCGGCCCCCGCC  
 L V H L L A R C A L F V L V A P S C A Y Q V C G P P L Y Q L G A A T Q A R P P P

ACACGCTAGTGGACCCCGAAGCGCTCTGGGATCGGAACGGGCGCTGGAACTAGCGCTAGGAGGCGGGGCTCCCTCTGGGCTGCGAGCCCCGGGTCCGAGGAGGCGCGGGGGCAGTGC  
H A S G P R R R L G C E R A W N E S V E Z A G V P L G L P A P G A R R R R G G S A

CAGCGGAAGTCTGCCCTGCCCAAGAGGCCCGAGGCTGGCGCTGCCCGAGCGCGAGCGGACCGCCGTGGCGCAGGGCTCTCGGGCCACCCGGCCAGGACCGCTGGACCGAGTGAACG  
 S R S L P L P K R P R R G A A P Z P Z R T P V G Q G S W A H P G R T R G P S D R

TGGTCTCTGTGTTGGTTCACCTGCCAGACCCGCCGAGAGAGCCACTCTCTGGAGGGTGGCGCTCTGGCAGCGGCCATCCCAACCATCCGTGGGCGCGCCAGCACCAACCGGGGGCCCCC  
 G P C V V S P A R P A Z Z A T S L E G A L S G T R H S H P S V G R Q H H A G P P

ATCTACATCGCGGGCCACCACTGCTCTGGGACACGCTTGCTCTCCCGGTGTACGCGGAGACACAGCACTTCTCTACTCTCTCAGCGGACACAGGAGCAGCTGCGGCGCTCTCTCTACTCTAG  
S T S R P P R P W D T P C P P V Y A Z T K S P L Y S S G D K E Q L R P S P L L S

CTCTCTGAGGCCCGAGCTGACTGGCGCTGGAGGGCTCTGGAGACACATCTCTCTGGCTCTGAGGGCTGGATCCAGGAGCTCCCCCGAGGTGCCCCCGCTGCCCCAGCGCTACTGGCA  
S L R P S L T G A R R L V E T I P L G S R P M M P G T P R R L P R L P Q R Y N Q

AATGCGGCGCCCTGTTTCTGAGAGTGCTGGGAACCAACGCGAGTGGCTTACGGGGTCTCTTCAAGAGCGACTGGCGGTGCGAGCTGCGGTCAACCCGAGCAGCGCGGTGTCTGTGCGCG  
 N R P L F L E L L G N H A Q C P Y G V L L K T H C P L R A A V T P A A G V C A R

GGAGAAGCCCGAGGGCTCTTGGCGGCCCGCAGGAGGAGGACACAGAGCCGCTCTCTGGTGAAGCTGTCTCCGAGCAGCAGCAGCCCTCGGACGGTGTACGGCTTCTGTCCGGGCTTG  
E K P Q G S V A A P E E E D T D P R R L V Q L L R Q H S S P W Q V Y G F V R A C

CTGCGCGCGCTGGTCCGCCAGGCTCTGGGGCTGAGGCACACAAAGCGGCTTTTGGGACACCAAGAGTTTCATCTCCCTGGGGGAAGCATGCCAAGCTCTCCCTGCAGGAGCT  
L R R L V P P G L W G S R H N Z R R P L R N T K K P I S L G K H A K L S L Q E L

GACGTGGAGAGATGAGCTGTGGGGACTTGGCTTGGCTTGGCAGGAGCCGAGGGTGGCTGTGTGGGGCCGACAGCAGCCTCTGGCTGAGGAGATCTCTGGCCAAAGTCTCTGCATGGCT  
T W K N S V R D C A H L R R S P G V G C V P A A E H R L R E E I L A K P L H W L

GATGAGTGTTACGTCTGCAGCTGCTCAGGTCTTCTCTTTATGTCACTGAGACCACTCTTCAAAAGACAGGCTCTTTTCTACCGGAACAGTGTCTGGACCAAGTTTCAAAAGCATTGG  
N S V Y V V E L L R S P P Y V T E T T F Q K N R L F P Y R K S V W S K L Q S : G

AATCAGACAGCACTTGAAGAGGGTGCAGCTCCGGGAGCTGTCCGAAGCAGAGCTCAGGCACATCCGGAGCCAGCCGCCCGCTGCTGACCTCCAGACTCCGGCTTCATCCCAAGCGCTGA  
 I R Q H L K R V Q L R E L S S A E V R Q H R E A R P A L L T S R L R F I P K P D

CGGGTCGGCGCGAATTGTGAACATGGACTACGTCGTGGGAGCCAGAACCTTCGSCAGAGAAAGAGGGCCGAGCGTCTCAGCTCGAGGGTGAAGGCCACTGTTTCAGCGTCTCAACTACGA  
G L R P I V N M D Y V V G A R T F R R E K R A E R L T S R V K A L F S V L N Y E

GGGCGGGCGGGCGGGCGGGCTCTGTGGGCGCCTCTGTGCTGGGCTGGAGCATATCCACAGGGGTTGGCACTTCGTGCTGCCTGTGCGGGGCCAGGACCCTGGCGCCTGAGCTGTACTT  
RARRPGLLGASVLLGLDD:HRAWRTPVLRVR AQDPPPEELYF

TGTCAGG GACAGGTCACGGAGTCTATGCCAGCATCATCAACCCGAGAACACGTACTGCGTGGCTCGGTATGCGGTGGTCCA  
V K D R L T E Y : A S I I K P Q N T Y C V R R Y A V V O

GAAGGCGCGCCCATGGGCACGTCGCGCAGGCGCTTCAAGAGCCACGCTCTACCTTGACACAGCTTCGAGCGCTACATGCCACAGTTCTGTGGCTCACGTCGAGGAGACGAGCGCGCTGAGGGA  
K A A H G H V R K A P K S H V S T L T D L Q P Y M R Q P V A H L O E T S P L R D

TGCCTGCTCATGAGCAGAGCTCTCTCCCTGAATGAGGCCAGCAGTGGCCCTCTGCAGCTCTCTCACTCTTCATGTGCCACACAGCCCTGCCCATCAGGGGCAAGTCTCTACGTCCAGTG  
 A V V I E Q S S S L N S A S S G L P D Y P L R P M C H H A V R I R G K S Y V O C

CCAGGGGATTCGCGAGGCTCCATCTCTCTCAGCGCTGCTCTCAGCGCTGCTCTACGGGACATGAGAACAGCTGTTTTCGGGGGATTCGGGGGGACGGGCTGCTCTCGCGTTTGTTGA  
Q G I P Q G S : L S T L L C S L C Y G D N N N K L F A G I R R D G L L L R L V D

TGAATCTCTGTTGGTGACACCTCACCTCACCCACGCGAAACCTTCTCAGGACCTCTGCTCAGGTGCTCGCTGAGTATGCGCTGCTGGTGAACTTCGCGGAAGACAGTGGTGAACTTCCC  
 D P L L V T P H L T H A K T P L R T L V R G V P E Y G C V V N L R K T V V N F P

TGTAGAAGACGAGCCCTGGGTGGCACCCTTTGTTACAGATGCCCGCCACAGCGCTATTTGGCTGGTCCGGCTGCTGCTGGATACCCGGACCTCTGGAGGTGCAGAGCGCACTTACTCCAG  
 V S D E A L G G T A F V Q M P A H G L F P W C G L L L L D T R T L E V O S D Y S R

GTGAGCGCACCTGGCCGGAAGTGGAGCCTGTGCCCGGCTGGGGCAGGTGCTGCTGCGGGGCTTGGCTGCAACCTGCTTCCGTGTGGGGCAGGGCACTGCCAATGCCAAGGGTCAGA

TGCCACAGGGTGCCTTCGTCATC.TGGGCGTAGGCACAATCCATCTCTTTCTGTAAAGTGAGGGG.CCTCACACCGGAGCAGTATTCTGTGCATTATGGTAA

**FIG. 11V**



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GGGCGCTGGGGCCCCAGGGCTGGCGCGTGGTGACGGCGGGGAATCCGGGGCTTTCCCGCGCTGGTGGCCAGTGCCTGGTGTGTCGTGCCCTGGGAAGCAGCGCGCGCCCCCGCGCCC  
R R L G P Q G W R L V Q R G D P A A F R A L V A Q C L V C V P W D A R P P P A A

GGCCTCCCGGGGTGGCGCTCGCGTGGGGTGGGGCGCGCGGGGGAACAGCGACATGCGGAGAGCAGCGCAGGCGACTCAGGGCGCTTCCCCCGCAGGTG  
G L P G V G V R L G L R A A G G N Q R H A E S S A G D S G R F P P R R  
A S P G S A S G W G \* G R P G G T S D M R R A A Q A T Q G A S P A G  
P P R G R R P A G V Z G G R G S P A T C G E Q R R R L R A L S P Q V

CCCCCTCTCTCCGCGAGGTGTCTCTGCTGAAGGAGCTGGTGGCCCCAGTGTCTGCGAGGCTGTGCGAGCGCGCGCGAGAACGCTGCTGGCTCTGGGCTTCGGCTCTGCTGGACGGGGCCCG  
P S F R Q V S C L K E L V A R V L Q R L C E R G A K N V L A P G F A L L D G A R

CGGGGGCCCCCGAGGGCTTCACCCACGAGGTGGCGAGCTACTCTGCCCAACCGTGAACCAAGCACTGCGGGGAGCGGGCGCTGGGGGCTGCTGCTGCGCCCGCTGGCGGACGACGT  
G G P P E A F T T S V R S Y L P N T V T D A L R G S G A W G L L L R R V G D D V

GCTGGTTCACCTGCTGGCCAGCTGCGGGCTCTTTGCTGCTGGCTCCAGCTGCGGCTACCAAGGTGTGGGGGCGCGCGCTGTACCAAGCTCGGGCGCTGCCACTCAGGCCCGGGCCCCCGCC  
 L V H L L A R C A L P V L V A P S C A Y Q V C G P P L Y Q L G A A T Q A R P P P

ACACGCTAGTGGACCCCGAAGCGCTCTGGGATGCGAACCGGCGCTGGAACTATAGCTTACGGAGGCCCGGGGTCCCGCTGGGGCTGCCAGCCCGGGGTTCGAGGAGGCCCGCGGGGCAAGTGC  
H A S G P R R R L G C E R A W N H S V R Z A G V P L G L P A P G A R R R R G G S A

CAGCCGCAAGTCTGCGCTTGCCCAAGAGGCCGACGGCTGGCCCTGCCCTGAGCCGGAGCGGACGCCGCTTGGCGAGGGGTCTCTGGGCCACCCGGGGCAGGAGCGCTGGACCGAGTGACCG  
 S R S L P L P K R P R R G A A P Z P S R T P V G Q G S W A H P G R T R G P S D R

TGGTTCTGTGTGCTGTGCACCTGCCAGACCGCGCGGAAGAACCCACTCTCTTGGAGGGTGGCTCTCTCGCCACGGCCCACTCCCAACCATCCCTGGGGCGCGCGAGCACCAACGGGGGCCCCC  
 G F C V V S P A R P A E S A T S L E G A L S G T R H S H P S V G R O H H A G P P

ATTCACATCGCGGCGACCAAGTTCCTGGGACAGCGCTGTGCCCGCGGTACCGCGAGACCAAGCACTTCCTCTACTCCTCAGGCGACAAGGAGCAGCTCGCGGCGCTCTCTCTACTCAG  
S T S R P P R P W D T P C P P V Y A S T K H P L Y S S G D K E Q L R P S P P L L S

CTCTCTGAGGCCGACCTGACTGGCGCTGGAGGCTCTGGAGACCATCTCTGGTTCTCAGGCGCTGGATCCGAGGGACTCTCCCGCAGGTGCCCCCGCTGCCCGACGGCTACTGGCA  
S L R P S L T G A R R L V E T I P L C S R P W M P G T P R R L P R L P O R Y W O

AATCGCGCCCGCTGTTCTGGAGCTGCTGGGACCAACGCGCAGTGGCGCTACCGGGTGTCTCTCAAGACCGACTGCCCGCTGGCAGCTCGGCTACCCCGAGCAGCGGGTGTCTGTGCGCG  
 M R P L P L E L L G N H A Q C P Y G V L L K T H C P L R A A V T P A A G V C A P

GGAGGAGCCCGAGCGCTGTGTGGCGCGCCCGAGGAGGAGCAACAGACCCCTGTGCTGTGTGACAGTCTCTCCCGAGGACAGCAGCGCCCTGGCAGGTGTACGGCTCTGTGCGGGCTGT  
E K P Q G S V A A P E E E D T D P R R L V J L L R Q H S S P W O V Y G P V R A C

CTCTGCGGCGGCTGGTCCCCCAGGGCTCTGGGGCTCCAGGCACAACGAACTGGCTCTCTCAGGAACCCAGAAGTTCATCTCCCTGGGGAAGCATGCGCAAGCTCTCGCTCCAGGAGCT  
L R R L V P P G L W G S R H N E R R F L R N T K K P I S L G K H A K L S L Q R L

T W K M S V R D C A W L R R S P G V G C Y P A A E H R L R E S I L A K P L H W L

TATCAGTGTGTACGTCGCGAGCTGCTCAGGTCCTTTCTTTATGTCACGGAGACCACTGTTTCAAAGAACAGCGCTCTTTTTCACCGGAGAGTGTCGGAGCAAGTGTCAAAGCATTGG  
 M S V Y V V E L L R S P P Y V T S T T P Q K N R L P P Y R K S V M S K I C S I C

ATCAGACAGCACTTGAAGAGGCTCCAGCTCCGGGAGCTGTCCGAAGCAGAGGTGAGGCAGCATCCGAAGCCAGGCCCCCGCTGCTGACGTCCAGACTCCGGCTTCATCCCAAGCGCTGA  
I R Q H L K R V Q L R E L S E A E V R Q H R E A R P A L L T S R I T P I T P R R R

GGCGCTCGCGCGGATGTGGAACATGGACTACCTCTGTGGGAGCCGAGAAGCTTCGCGCAGAGAAAAGAGGGCCGAGCGTCTCTACCTCGAGGGTGAAGGCACCTGTTACAGCTGCTCACTACCA  
G L R F I V N M D Y V V G A R T P R R Z K R A S R L T S R V K A I P S V I M M V R

[illegible]

GTCAAG  
V K

GACAGCGCTCAGCGAGGTCTATCCCGCATCATCAAAACCCAGAAACAGTACTCGGTGGCTCGGTATGCCCGTGGTCA  
D R L T E V : A S I I K P O N T Y C V C V R P R Y A V V C O

AAGGCGCGCCCA TGGCCACGTCCTCCCAAGGCGCTTCAAGAGCCACGTCCTACCTTGACAGACTTCCAGCCGCTACATGGGACAGTTCGTGGCTCACCTGCAGGAGACCCAGCCCGCTGAGGGA  
 K A A H G H V R K A P K S H V S T L T D : O P Y M R O P V A H V A V V G

GCCTGCTCATCGACGAGAGTCCCTCCCTGAATGAGGCCAGCAGTGGCCCTCTTCGACGTCTCTCTACGGCTCAATTGACCACCAACGCCGTGCCCATCAGGGGCAAGTGCTACGTCAGTGA  
A V V I E Q S S S L N E A S S G L P D V F L R P M C H A V T Y D R T D K

CAGGGGATCCCGCAGGGCTCCATCTCTTCCACCGCTGCTTGCCAGCGTTGTCTACGCCGCATCGGAACAACGCTGTTTCGGGGATTTCGGCGGGACGGGGTGCTCTCGCTTTCGTTGCA  
Q G I P Q G S I L S T L L C S L C Y G D N E N K L V A C I F R D R K S Y V Q C

GATTTCCTGTTGGTGACCACTGCACCTCACCCAGCGGAAACCTTCTCAGGACCCTGTGCTGAGCTGAGTAATGCCGCTGGTGAACATGCCGAGACAGTGGTGAACATCCCC  
D P L L V T P H L T H A K T F L R T L V R G V D E V C G C U T G T T A M N

TGTAGAACACGAGGCCCTGGTGGCCACGGCTTTGTTGATGCACCGGCCACGGCCTATTCCCTGGTCGGCCCTGCTGCTGGATACCCGACCTCGAGAGCTACTCTCCAG  
V E D E A L G S T A F V O M P A H G L F P W C G I L L R K K T V V N S P

FATGCCCGGACCTCCATCAGACCCAGTCTCACCTTC AACCGCGGGTCAAGGTGGGAAGAACTGCCTGCCAATCTTTGGGGTCTTGCGGCTGAAGTGTCAAGCCTGTTTCTCGA

TTGCAGGTGAACAGCCTTCAGACGGTGTGCACCAACATCTACAGATCTCTCTCTCTGCAGCCTTACAGGTTTACGCACTGTGTGCTGCAGCTCCCATTTTCATCAGCAAGTTTGGGAAGAA

[illegible]

T P F L R V I S D T A S L C Y S I L K A X N A Z

CCGAAGAAACATTTCTGTCGTGACTCCTGCCGGTGCTTGGGTC  
E E N I L V V T P A V L G S

GGGACAGCCAGAGATGGAGCCACCCCGCAGACGCTGGGGTGTTGGGCAGCTTCCGGTGTTCTCTGGGAGGGGAGTTGGCTGGGGCTGTGACTCTCTCAGCCCTCTGTTTCCCCCAG  
G Q P E N E P P R R P S G V G S P P V S P G R G V G L G L .

FIG. 11W